Learning Communities: An Effective Model for a Masters of Education Program

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Abstract

Qualitative data collected from students who have completed a Master of Science in Education Learning Community program support the effectiveness of the learning community model in facilitating professional growth and transformation. Students report educational experiences that encourage reflective analysis of theory and practice. Instructors model constructivist theory and work to create a safe and positive environment where students are actively engaged in inquiry, self reflection, collaborative learning, and independent learning. Peer review and collaboration are essential components of the model. The program facilitates growth as educators build their understanding about teaching and learning, transfer their ideas and processes into the classroom, and take an active leadership role in promoting change in classrooms, school and larger community.

Three inter-related concepts provide the theoretical basis for this learning community model: constructivism, learning communities, and transformational learning.

Constructivism

The basis for the learning community concept lies in the theory of constructivism. According to Brooks and Brooks (1999), constructivism is a theory about knowledge and learning in which the learner is allowed to investigate and reframe understanding. Constructivism, as an epistemology, attempts to explain human learning in terms of understanding the interaction between what learners know and believe, with exposure to new events, activities, and information (Abdal-Haq, 1999). The meaning and application of
knowledge are interpreted by the learner, through experience (Rainer, 1999). Constructivism is more concerned with student understanding than with accumulated facts; further, constructivism considers the role of social and cultural contexts related to learning, rather than purely cognitive learning following abstract principles (Black & Ammon, 1992; Vygotsky, 1978; Bruner, 1996). A constructivist learning environment utilizes experience, collaborative discourse, and reflection which, together, assist the learner to confront his or her own learning needs (Brooks & Brooks, 1999).

Viewed within the Piagetian (1964) framework, learning takes place when the learner actively assimilates and interprets new information within the framework of existing understandings. This interaction between new information and current understandings leads to learning by forcing the learner to reformulate, or reconcile, any dissonance produced by this interaction (Black & Ammon, 1992; Brooks & Brooks, 1999). Vygotsky’s social constructivism emphasizes the role and influence of socio-cultural forces in which learning occurs and how that context impacts learning (Vygotsky, 1978).

Dewey (1916) concluded that the primary purpose of education is to improve students’ reasoning capacities and problem-solving abilities. Students’ motivation to learn must arise from perceived needs originating out of problems of interest to students; students will be motivated when their learning centers around improving their abilities to solve their “real life” problems (Ornstein & Hunkins, 1998). Learning environments in which problem solving and discovery are encouraged require teachers who facilitate student learning (Dewey).

Meaningful learning experiences are designed primarily with the learners’ context in mind. Social constructivism, sometimes referred to as Vygotskian constructivism, emphasizes the individual’s construction of knowledge through interaction with the environment (Abdal-Haqq,
Although learning is an individual experience and interpretation, research indicates that people learn through interaction with others (Johnson & Thomas, 1994). In addition, Brookfield (1995) emphasizes the role of critical reflection in the facilitation of adult learning, in order to foster the expansion of students’ capacity for lifelong learning.

**Learning Communities**

One of the most significant developments in higher education in recent years is the emergence of adult learners as a major constituency (Maehl, 2000). In order to accommodate this growing trend into the long-held ideal of lifelong learning, universities must create programs which acknowledge and respect non-traditional adult learners’ needs and interests. These new forms of education will have to address the needs of professional practice while fostering reflective practitioners (Taylor, 1997).

Adult education has long emphasized group learning. Research dating back to 1946 has documented the role of groups to effect changes in behavior (French & Bell, 2000). Yet, learning in groups, or cohorts, in more formal academic programs is a new, but, increasingly popular option for adult learners (Nesbit, 2001). Structurally, a cohort is often defined as a group of students who enroll at the same time, and complete a course of study together. However, Norris and Barnett (1994) differentiate between a cohort’s structure and its purpose. While a cohort may be viewed by some as simply a delivery method or scheduling strategy, purposeful design of cohorts fosters learning and development. Purposefully designed cohorts acknowledge the role of group dynamics and principles of adult learning (Slick, 2002).

Research indicates that successful cohorts produce a sense of belonging among members, support risk taking, foster mutual respect and critical reflection (Brooks, 1998; Lawrence, 1997). A learning environment that is safe, caring, and trusting encourages and enables learners to bring
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unique life experiences to the cohort. This, in turn, facilitates “learning-within-relationships”, (Barlas, 2001) a function of equal participation leading to transformational learning. Kegan and Lahey’s (2001) approach to adult development suggests that learning depends on one’s connections with others and the context in which that learning occurs. Current research on professional development supports the importance of collaborative and collegial learning environments where colleagues reflect on learning strategies which have been implemented in the classroom (Darling-Hammond & Richardson, 2009). A learning community results in meaningful learning and provides the necessary support for the individuals (Slick, 2002).

**Transformational Learning**

In 1978, Mezirow proposed a new theory of adult learning. This theory originated with his research of adult women who had returned to college after an extended absence. Mezirow (2000) found that the women who had developed a critical awareness “of their beliefs and feelings about themselves and their role in society”, also changed “the way they had tacitly structured their assumptions and expectations” (p.xii). This change in thinking was a “learned transformation”, and the term “transformative”, or, “transformational” learning was born. In his analysis of Mezirow’s theory, Inglis (1997) states that “transformative learning focuses on the individual and the reconstruction of the notion of self” (p.4). Transformative learning emphasizes the learning, growth, and resulting empowerment of the individual to act accordingly. The integration of new experiences with present understandings leads to a revision, or transformation, of the learner’s perspective (Nesbit, 2001).

Mezirow (2000) identifies three interrelated components in the process of transformational learning: the learner’s experiences, critical reflection, and rational discourse (in which the learner acts upon critical reflection). Beliefs and assumptions are questioned, allowing
for the possibility of new or revised interpretations of past experiences and present realities. Only by developing an awareness of beliefs, values, and feelings about oneself can an individual begin the process of deep and meaningful change – learning. Changes in self-concept, examination of internalized norms, and new perspectives on past behaviors are likely to occur when adults develop the capacity for reflection (Brookfield, 1986).

In order for transformational learning to occur, critical reflection and reflective discourse are necessary. This ability to reflect on one’s own, as well as others’ assumptions, is inherent in the process of transformational learning (Merriam, 2004). Belenky and Stanton (2000) concluded that most adults do not have the skill to critically reflect on their thinking, nor the thinking of others. They have not had the opportunity or experience in developing this capacity.

Perhaps the most significant aspect of transformative learning is the role of critical reflection. Mezirow states that “central to this transformative process of learning is critical reflection and testing new meanings through rational discourse” (1991, p.2). Nesbit (2001) argues that the “potential of transformative learning for graduate and continuing professional education lies in its ability to encourage ‘reflection-in-action’”, which leads to improved professional practice, and greater capacity for further gains (p. 5).

It is the individual’s reflection on self that drives transformative learning. Mezirow’s concept of learning based on awareness of one’s beliefs and assumptions requires more than the traditional “strategies… [that] focused on the improvement of skills and the acquisition of new techniques” (Sokol & Cranton, 1998, p.1). This is the difference between transforming and training. The former produces an individual whose growth and learning becomes self-directed and meaningful; the latter results in an individual who is dependent on others for instruction in
skill development. Brookfield (cited in Mezirow, 2000, p.125) agrees with Mezirow when he states “transformative learning cannot happen without critical reflection…."

Mezirow’s theory of transformative learning has been a useful model for understanding and improving adult learning. In order to genuinely improve the teaching profession, educators must move “beyond what Freire (1970) described as the ‘banking model’ of teaching in which educators make deposits of information into the empty vaults of students’ minds” (Sokol & Cranton, 1998, p.1)

**The Learning Community Program**

The Learning Community Program at a Midwestern university has been designed to meet the professional development needs of educators. Since 1996 over 2000 graduates have reported and demonstrated transformational growth in their thinking about learning, in their teaching and in their leadership. Delivered in a non-traditional manner in off-campus cohorts, or, more specifically, learning communities, the master’s degree program promotes teacher growth and transformation through inquiry, classroom application, and critical reflection.

Current research on teaching and learning, and best practices are modeled by faculty. National Board for Professional Teaching Standards (NBPTS) and the National Partnership for Excellence and Accountability in Teaching (NPEAT) research-based Characteristics of Effective Professional Development, and the university Leadership Standard are incorporated into the coursework. The faculty work collaboratively to shape educational experiences that engage educators in critical dialogues and analysis of educational theory and practice. Collaboration and peer review are essential components of the learning experiences. Students participate with the same group of peers and the same faculty facilitators throughout the two-year program. Each
Learning communities have been located in several states.

The program is designed to facilitate professional growth as educators build their understanding about teaching and learning, transfer their ideas and processes into the classroom, and take an active leadership role in promoting change in classrooms, school, and the larger community. Students demonstrate their professional growth through a portfolio and they also engage in an action research project which culminates in an action research paper comparable to a thesis and a formal presentation.

Facilitators model the constructivist theory and work to create a safe and positive environment where students are actively engaged in inquiry, self reflection, interpersonal activities, building community, peer review and independent learning. A facilitator, who is a member of the Education Department faculty and a co-facilitator, who is a current K-12 practitioner and graduate of the learning community program, guide the students through a curriculum which is designed to scaffold theory and practice. Themes are spiraled over the two year experience and theory and practice are examined in increasing depth. Books and articles are carefully selected to build student understanding and critical reflection skills. Students apply what they learn in the classroom, reflect on their implementations and critique them with their peers. In addition, students examine their own teaching skills, learning styles, multiple intelligences, personality and leadership styles and reflect on how that applies to their construction of curriculum and their teaching. As students build understanding through reflective and analytic engagement with new ideas and theories of teaching and learning, they deconstruct their thinking and understanding about teaching and learning and about their
practice. **The outcome is a transformation in their thinking about teaching, learning, and classroom practices.**

Initially, students are asked to analyze their current teaching through the use of teaching surveys and videotaping of class sessions. They also are introduced to Adult Learning Style Surveys, Adult Multiple Intelligence Indicators, and Meyers Briggs Indicators to help them delineate more about their own learning, working preferences and personality styles. Students are asked to reflect on how the information they have learned about themselves from each of these tools informs what they do in the classroom. Students use these initial reflections as a baseline for determining their future growth.

**Early in the program,** students are exposed to bonding activities which build community and trust. They work on team building and understanding group dynamics. Each student becomes a member of a cohort group called an advisory team which stays together throughout the program to critique and review presentations, writing, portfolios and action research projects. The advisory group signs off on final projects, the portfolio and the action research projects. Other cooperative groups which are formed are job-alike groups where students are grouped by teaching levels such as secondary, middle-school, special education, upper elementary, primary and pre-primary or by some other common denominator. Students often work in these groups when studying best practices, curriculum development or for sharing ideas for the classroom. Finally, students are mixed in groups for various activities such as special interest groups which conduct research on specific topics and present to their peers. Mixed groups are used for activities such as jig sawing reading materials or other interactive exercises. Students report that the networking and advisory group support and interaction are key features of the learning community program and are one of the main contributors to professional growth.
Critical reflection is essential to growth and is the basis for transformational growth. Many students feel uncomfortable with reflective writing initially. The first reflections are about their own teaching and observations of classroom videos. These reflections are often superficial and lack depth of thought. As students read the spiraled materials and discuss, evaluate and implement their new learning in their classrooms, they begin to connect ideas, themes, and theory to practice. Unfamiliar ideas, strategies and practices become familiar and enter into the teaching repertoire. Students grow to become thoughtful, analytical practitioners and reflection, which once seemed unnatural and awkward, becomes a modus operandi.

Early in the program, students are exposed to a variety of manageable research experiences. Students are introduced to the elements of research and design a project to address a question in their own classrooms or school settings. Often students will design a survey such as an attitude survey as an initial research effort. Students ask a question, collect data, interpret the data and present to their peers. Critical examination of the research process, including successes and failures, builds an understanding of how to conduct research and also of its impact on informing teaching and learning. As with other experiences, this first exposure to action research is the base of the scaffold of experiences which the student will encounter during the first year in preparation for the culminating action research project.

Educators do not often think of themselves as leaders. One of the goals of the program is to develop an understanding of how they can become change agents in their schools and communities. Early in the process students are introduced to the Chaos Theory of physics which explores how patterns arise out of chaos. Even the fluttering of a butterfly’s wings can affect a change in global climate. The butterfly wings become a metaphor for the incremental changes which occur when teaching and learning changes in the classroom. This along with study of
organizational theory and dynamics help students understand how they can become instrumental in facilitating positive change in the classroom, the school and the community. Students report that they are often asked questions by peers as the result of being in a Master’s program. The changes which occur in their classrooms are shared by their own students and others in the school become aware of a transformation taking place. Finally, the research that they conduct becomes a catalyst for pathways to change.

The portfolio is important in the learning process for it reflects the growth and transformation in the student’s thinking, teaching and learning. Advisory team members assist each other in the development of the portfolios and offer critical reviews during the process. Working with their advisory teams, the students first determine the goals and sub goals which will be used based on the NBPTS standards and the leadership standard. Teams normally develop rubrics for assessing whether each goal or sub-goal has been met. The next step is the development of an individual professional development plan where the student decides which experiences and artifacts will demonstrate having met the goals and sub goals. Critical reflection pieces written about goals and sub-goals describe how students have grown. The portfolio is used to demonstrate the transformation in thought and action, and becomes a work in progress over the length of the program. Facilitators and others are amazed at the professional growth which is demonstrated by students participating in the program. The students’ final reflections epitomize the transformation in teaching and learning as students are able to connect all of their program experiences, reading, theory and new ideas to their actual classroom practice.

**Learning Community Impact**

The impact of the learning community experience is assessed and interpreted from data collected through instruments administered at various points throughout the two-year program.
While student learning is assessed through various projects, presentations, research, and the professional development portfolio, assessment instruments are utilized to measure the effectiveness of the learning community process in facilitating student growth and development. Several dimensions of program outcomes related to student learning will be summarized in this paper.

Feedback in the form of reflections about student growth and about the learning communities is collected frequently. When students have completed a learning community program, quantitative data in the form of surveys is collected and collated for each learning community. Also qualitative data in the form of written reflections are collected. The feedback reflects the transformation of students in their thinking and in their practice. This data mirrors the quantitative results which emphasize professional growth; the importance of reflection; opportunities to learn about and implement into the classroom current constructivist strategies, current learning theory and pedagogy; collaboration with peers; and, becoming teacher leaders and change agents.

**Critical Reflection**

Experience in a learning community pushes students to inquire into their belief structures and philosophy, underlying values, and the actions connected to them. Readings, dialogue, and classroom applications provide experiences within which thinking and classroom practices are challenged. Initially, exposure to this inquiry-based environment leads to a period of “deconstruction” in which teachers experience dissonance in current beliefs and practice in light of newly acquired knowledge and experiences. Through consistent exposure to opportunities (individual and collective) critical reflection on practice becomes a habit of mind.
Several student responses follow that indicate the occurrence or beginnings of transformative learning. Early in their learning community experience, students responded to questions designed to illicit critical reflection on their teaching practice, and their thinking as a professional. Carol, a second grade teacher, writes, “I am also reflecting on my beliefs as a teacher as well as [myself] as a student. I am thinking a lot about the methods I teach in my classroom and my beliefs. I am beginning to question what I am doing and why. Through my reflections, I am beginning to develop a sense of who I am, and what I really believe”. These excerpts indicate that the process of critical reflection is leading to transformative learning.

Tom, a middle school teacher describes his development by stating, “I totally wanted to take this program for a financial gain, but now I see that this program will help me become a better teacher. The books, the activities, the assignments, and the groups I work with are all making me question myself and why I do something the way I do…. ” Another student, Pam, who teaches kindergarten, states, “I have been composing this reflection in my mind for many days. There are so many thoughts and ‘revelations’ happening…. ” She then describes her journey as a learner, beginning with her days as a high school student. She relates that she was always a bit embarrassed by her “love of learning” in high school and college because “it wasn’t cool. For some reason, I never wanted to say it out loud.” She continues by affirming her belief in herself when she says, “it is a good thing to be a self-proclaimed lifelong learner!” The transformative principles of meaning, examining values, and acting are evident in her comments. In her concluding thoughts, she states that her learning is “stretching my wings…. I have reached the point where I feel strongly enough that to do the best I can for my students, I have to stand up for what I know is right for them as young learners.” As mentioned earlier, these educators are only several months into their graduate studies, but the beginnings of transformative learning are
evident and encouraging. The data emerging from this class of educators supports Sokol and Cranton when they conclude that “adding a few more techniques to the repertoire is always of interest, but the real, and deeper, professional development involves an examination of our self as teacher, and a thorough look at what we believe – and why” (1998, p.3).

Students often report the importance of reflection and the transformation in their teaching which has happened and will continue because of that reflection and critical analysis. “The growth that I have experienced professionally over the past two years has been tremendous. This program has made me more reflective on the quality of what I do and its effect on the students and other staff in my school. I believe that I’m much more qualified, not just to teach, but to be openly critical in my attempts to provide a better environment for my students.” (Student feedback)

In the settings described above, it is evident that transformative learning is a valid approach to teacher professional development. “Adult learners engaged in this process are actively questioning heretofore invisible assumptions about self, society, role, and responsibility…” (Taylor, 2000, p.159). Teachers who have experienced transformative learning as part of their professional development will not only gain a deeper understanding of the learning process, but are likely to develop a greater sense of meaning and purpose (Kroth & Boverie, 2000) as educators.

**Collaboration**

Collaborative problem solving leads students to share and examine their teaching practices. Breaking down teacher isolation collectively empowers teachers, and assists in developing a shared language of effective practice. Within this safe and supportive environment, teachers begin to critically examine their “teaching self”, and reflect on the capacities required to
perpetuate learning and growth. An important component in the students’ learning community experience, collaboration is utilized as a means to transformative learning. Early in the graduate program, students are exposed to writings and dialogue with colleagues that challenge their assumptions about learning and teaching. This new information, and new ways of thinking about education, often creates the conditions necessary for what Mezirow calls a “disorienting dilemma”: an experience that leads an individual to question beliefs and values.

Teachers report that they have implemented in the classroom the strategies and theories to which they have been exposed. This has become in integral part of their teaching repertoires. In addition they have learned to work collaboratively to bring about changes in their classrooms, schools and communities. “This has been the best possible learning experience I have had in 25 years of education. I was introduced to and had an opportunity to experiment with numerous teaching strategies, learning styles, and educational opportunities. We were encouraged, advised, and challenged to become better educators. Through this program, I have gained confidence in myself, as an educator and as part of a team working to make school better for students. This program far exceeds any educational class I have taken.” (Student feedback).

The dialogue with other educators contributes to the individual’s personal transformation by “making public…the historical dimensions of our dilemma and confronting it as a difficulty to be worked through”(Boyd, as cited by Mezirow, 2000, p.22).

**Student Growth and Transformation**

Intricately tied to critical reflection and collaboration is the outcome of student growth and transformation. Schön (1983) describes the process as “reflection-in-action”, in which experienced educators experience transformational learning. Educators learn to use their
experiences to self-assess and revise their understanding of theory, leading to more effective practice.

The transformation which takes place in the teachers also promotes growth and understanding in the teacher as a leader. “This program has challenged, stretched and inspired me to become a leader. I can hardly put in words the direct impact this program has had on me professionally. I am stepping out and taking leadership in not only my classroom, but among my staff and district. This has given me affirmation about important decisions I make in my school. I have grown more than I would have ever imagined” (Student feedback).

Over the course of their graduate program, students consistently inquire into their belief structures through meaningful, relevant readings, activities, and problem solving. Within the structure and safety of the learning community, students progress into a deeper understanding of themselves as a learner, then as a teacher. Exposure to problems of emerging relevance leads to an increased capacity to identify problems, create responsive solutions, and to evaluate their effectiveness. This development encompasses overall professional competencies, and, specifically, personal teaching skills, and personal and professional leadership skills.

As part of the learning community experience, students examine and challenge, each other’s thinking about teaching and learning and begin the transformational process in which new and deeper understandings replace what have become inadequate beliefs about teaching and learning. Growing as a professional educator is seen as a continuum for the future. “I never thought that a program could have such a profound impact on me as a teacher and as a person. This program is so unique—one you can’t forget. I think about the changes and the impact it has on my students all of the time. In the past “traditional” courses have been good but once the
book was closed the learning experience stopped. This will not be the case with this program. It’s only the beginning for me” (Student feedback).

Argyris (2000) concludes that “teaching people to reason about their behavior in new and more effective ways breaks down the defenses that block learning” (p. 296).

Experienced teachers are often revitalized as a result of their experiences in the learning community. “This program has stretched me professionally and personally to heights I never thought I could attain. Furthermore, this experience has once again ignited the spark for the love of teaching I thought I had lost. The impact of what we’ve done in our community has reached and will continue to reach out to our classrooms, to colleagues, our families, the lives of our students, and beyond” (Student feedback).

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